

## SEQUENCE LISTING

<110> Sloning Biotechnology GmbH

<120> Method for the manufacture of nucleic acid molecules

<130> S 10010 PCT

<140> EP 02023385.4

<141> 2002-10-18

<160> 61

<170> PatentIn version 3.1

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11

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17

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17

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<400> 26  
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15

<210> 27  
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<400> 27  
gtacgagacg cgcttttgcg cgtctcg

27

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<223> 1. anchor oligonucleotide in Fig. 1A and Fig. 3A

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<221> misc\_feature  
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taccgccgaa gaggcgtttt cgctcttcg gcg

33

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<220>  
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<223> 5'-end and 3'-end are ligated

<220>  
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<222> (29)..(29)  
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gcgcgtctcg taccgccgaa gaggcgtttt cgcctcttcg gcggtacgag acgcgctttt 60

<210> 30  
<211> 33  
<212> DNA  
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<220>  
<221> misc\_feature  
<223> left sequence in Fig. 1E

<400> 30  
gcggtacgag acgcgctttt gcgcgtctcg tac 33

<210> 31  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
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<220>  
<221> misc\_feature  
<223> right sequence in Fig. 1E, Fig. 3C and Fig. 3E

<220>  
<221> misc\_feature  
<222> (16)..(16)  
<223> biotinylated nucleotide

<400> 31  
cgccgaagag gcgttttcgc ctcttcg 27

<210> 32  
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<212> DNA  
<213> Artificial Sequence

<220>  
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<220>  
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<223> left sequence in Fig. 1F and Fig. 3E

<220>  
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<222> (19)..(19)

<223> biotinylated nucleotide

<400> 32

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33

<210> 33

<211> 25

<212> DNA

<213> Artificial Sequence

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<221> misc\_feature

<223> splinker oligonucleotide in Fig. 2A and Fig. 4A

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25

<210> 34

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<212> DNA

<213> Artificial Sequence

<220>

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<221> misc\_feature

<223> 1. anchor nucleotide in Fig. 2A and Fig. 4A

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<221> misc\_feature

<222> (21)..(21)

<223> biotinylated nucleotide

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ccgtcatacg gatacgcgtt ttgcgtatc cgtatgacgg a

41

<210> 35

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc\_feature

<223> sequence appears in Fig. 2B, Fig. 2C, Fig. 2D and Fig. 4B

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<221> misc\_feature  
<222> (32)..(32)  
<223> biotinylated nucleotide

<220>  
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gctttt 66

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<220>  
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<223> left sequence in Fig. 2E, Fig. 2F, Fig. 4C, Fig. 4D and Fig. 4E

<400> 36  
cggacgagac gcgcttttgc gcgtctcgtc cgt 33

<210> 37  
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<223> right sequence in Fig. 2E, Fig. 4C and Fig. 4D

<220>  
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<400> 37  
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<220>  
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<222> (21)..(21)  
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<210> 39  
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<223> sequence appears in Fig. 5A (left of text "Elongation product #1"  
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<223> biotinylated nucleotide

<220>  
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acggcttacg acgcgtcgcg tacgagacgc gctttt 96

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<223> biotinylated nucleotide

<220>  
<221> misc\_feature  
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atcgaactag cgtaggccgg accgagacgc gctttt 96

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<220>  
<221> misc\_feature  
<223> sequence appears in Fig. 5B ( left of text "Cut elongation product #1 with 3 nucleotide overhang at 5' end") and in Fig. 5C (left sequence left of text "Transition #1")

<400> 41  
ggacggctta cgacgcgtcg cgtagcagac gcgcttttgc gcgtctcgta cgcgacgcgt 60  
cgtaagccg 69

<210> 42  
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<223> sequence appears in Fig. 5B (left of text "cut elongation product #2 with 3 nucleotide overhang at 5' end") and in Fig. 5C (left sequence left of text "Transition #2")

<400> 42  
gcatcgaact agcgtaggcc ggaccgagac gcgcttttgc gcgtctcggt ccggcctacg 60  
ctagatcga 69

<210> 43  
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<212> DNA  
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<223> sequence appears in Fig. 5C (right sequence left of text "Transition #1")

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<222> (16)..(16)  
<223> biotinylated nucleotide

<400> 43  
tcccagagacc gcgttttcgc ggtctcg

27

<210> 44  
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<212> DNA  
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<220>  
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<223> Sequence appears in Fig. 5C (right sequence left of text "Transition #2")

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<221> misc\_feature  
<222> (16)..(16)  
<223> biotinylated nucleotide

<400> 44  
tgccgagacc gcgttttcgc ggtctcg

27

<210> 45  
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<223> sequence appears in Fig. 5D, Fig. 5E, Fig. 5F and Fig. 5G (in each case left of text "Elongation block #1")

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<223> biotinylated nucleotide

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gcgcgtctcg tacgcgacgc gtcgtaagcc gtcccgagac cgcgttttcg cggctctcggg 60  
acggcttacg acgcgtcgcg tacgagacgc gctttt 96

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<221> misc\_feature  
<223> sequence appears in Fig. 5D, Fig. 5E, Fig. 5F, Fig. 7A (in each case left of text "Elongation block #2") and in Fig. 5H (right of text "Elongation block #2")

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<222> (47)..(47)  
<223> biotinylated nucleotide

<220>  
<221> misc\_feature  
<223> 5'-end and 3'-end are ligated

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gcgcgtctcg gtccggccta cgctagatcg atgccgagac cgcgttttcg cggctctcggc 60  
atcgaactag cgtaggccgg accgagacgc gctttt 96

<210> 47  
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<223> sequence appears in Fig. 5G (left of text "Eco31I cut Elongation



block"), Fig. 5I (above text "Cut elongation block 1"), Fig. 7B and Fig. 7C (in each case left of text "Cut elongation block #1")

<400> 47  
ggacggctta cgacgcgtcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60  
cgtaagcc 68

<210> 48  
<211> 68  
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<220>  
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<222> (37)..(37)  
<223> biotinylated nucleotide

<400> 48  
gtccggccta cgctagatcg atgccgagac cgcgttttgc cggctctcggc atcgaactag 60  
cgtaggcc 68

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<220>  
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gcgcgtctcg tacgcgacgc gtcgtaagcc gtccggccta cgctagatcg atgccgagac 60  
cgcgtttttcg cgggtctcggc atcgaactag cgtaggccgg acgggttacg acgcgtcgcg 120  
tacgagacgc gctttt 136

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<220>  
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<223> 5'-end and 3'-end are ligated

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gcgcgtctcg tacgcgacgc gtcgataagc cgtctcatac ggatacgcgt tttcgcgtat 60  
ccgtatgaga cgggttatcg acgcgtcgcg tacgagacgc gctttt 106

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<220>  
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<223> sequence appears in Fig. 6A (left of text "Elongation product #2)

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<221> misc\_feature  
<222> (52)..(52)  
<223> biotinylated nucleotide

<220>  
<221> misc\_feature

<223> 5'-end and 3'-end are ligated

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gcgcgtctcg gtccggccta cgctgagatc gatgccatac ggatacgcgt tttcgcgtat 60  
ccgtatggca tcgaactcag cgtaggccgg accgagacgc gctttt 106

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<220>  
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<223> sequence appears in Fig. 6B (left of text "Cut elongation product #1 with 3 nucleotide overhang at 5' end") and Fig. 6C (left sequence left of text "Transition #1")

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gacggcttat cgacgcgtcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60  
cgataagccg tct 73

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<220>  
<221> misc\_feature  
<223> sequence appears in Fig. 6C (left sequence left of text "Transition #1")

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> biotinylated nucleotide

<400> 53  
cgagaccgcg ttttcgcggt ctcca 25

<210> 54  
<211> 73  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>  
<221> misc\_feature  
<223> sequence appears in Fig. 6B (left of text "Cut elongation product #2 with 3 nucleotide overhang at 5' end") and in Fig. C (left of text "Transition #2")

<400> 54  
catcgaactc agcgtaggcc ggaccgagac gcgcttttgc gcgtctcggt ccggcctacg 60  
ctgagatcga tgc 73

<210> 55  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>  
<221> misc\_feature  
<223> sequence appears in Fig. 6C (right sequence left of text "Transition #2")

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> biotinylated nucleotide

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cgagaccgcg ttttcgcggt ctcgg 25

<210> 56  
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<212> DNA  
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<220>  
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>  
<221> misc\_feature  
<223> sequence appears in Fig. 6D (left of text "Elongation block #1")

<220>  
<221> misc\_feature  
<222> (48)..(48)  
<223> biotinylated nucleotide

<220>  
<221> misc\_feature  
<223> 5'-end and 3'-end are ligated

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gcgcgtctcg tacgcgacgc gtcgataagc cgtctcgaga ccgcgttttc gcggtctcga 60  
gacggcttat cgacgcgtcg cgtacgagac gcgctttt 98

<210> 57  
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<220>  
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<220>  
<221> misc\_feature  
<223> sequence appears in Fig. 6D (left of text "Elongation block #2")

<220>  
<221> misc\_feature  
<222> (48)..(48)  
<223> biotinylated nucleotide

<220>  
<221> misc\_feature  
<223> 5'-end and 3'-end are ligated

<400> 57  
gcgcgtctcg gtccggccta cgctgagatc gatgccgaga ccgcgttttc gcggtctcgg 60  
catcgaactc agcgtaggcc ggaccgagac gcgctttt 98

<210> 58  
<211> 96  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>  
<221> misc\_feature  
<223> sequence appears in Fig. 7A (left of text "Elongation block #1")

<220>  
<221> misc\_feature  
<222> (47)..(47)  
<223> biotinylated nucleotide

<220>  
<221> misc\_feature  
<223> 5'-end and 3'-end are ligated

22

<400> 58  
cgccgtctcg ggacggctta cgacgcgtcg cgtacgagac ccgcttttgc gggctcggta 60  
cgcgacgcgt cgtaagccgt cccgagccgg cgtttt 96

<210> 59  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>  
<221> misc\_feature  
<222> (1)..(4)  
<223> single-stranded overhang, not complemented by complementary strand

<220>  
<221> misc\_feature  
<222> (5)..(20)  
<223> double-stranded nucleic acid, complemented by SEQ ID No. 48. The complementary strand continues in its 5'-direction with an overhang of 4 nucleotides (GCAT)

<400> 59  
ggacggctta cgacgcgtcg 20

<210> 60  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>  
<221> misc\_feature  
<222> (1)..(4)  
<223> single-stranded overhang, not complemented by complementary strand

<220>  
<221> misc\_feature  
<222> (1)..(4)  
<223> double-stranded nucleic acid, complemented by SEQ ID No. 47. The complementary strand continues in its 5'-direction with an overhang of 4 nucleotides (CAGG)

<400> 60  
tacgcgacgc gtcgtaagcc 20

<210> 61

<211> 108  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>  
<221> misc\_feature  
<223> sequence appears in Fig. 7D (right of text "Complementary overhang for subsequent transposition step")

<220>  
<221> misc\_feature  
<222> (57)..(57)  
<223> biotinylated nucleotide

<220>  
<221> misc\_feature  
<223> 5'-end and 3'-end are ligated

<400> 61  
tacgcgacgc gtcgtaagcc gtccggccta cgctagatcg atgccgagac cgcgttttcg 60  
cggctctcggc atcgaactag cgtaggccgg acggcttacg acgcgtcg 108